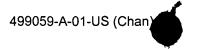


## What is claimed is:

- 1. An apparatus for classifying a call to a destination
- 2 endpoint comprising:
- a receiver for receiving information from the
- 4 destination endpoint;
- a first detector for determining a first classification in
- 6 response to the information received from the destination
- 7 endpoint;
- 8 a second detector for determining a second
- 9 classification in response to the information received from the
- 10 destination endpoint;
- a third detector for determining a third classification in
- response to the information received from the destination
- 13 endpoint; and
- an inference engine for determining a call
- classification of the destination endpoint in response to the first,
- second, and third classifications.
- 1 2. The apparatus of claim 1 further comprises a fourth
- 2 detector for determining a fourth classification in response to
- 3 the information received from the destination endpoint; and
- 4 the inference engine further responsive to the fourth
- 5 classification for determining the call classification of the
- 6 destination endpoint.

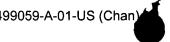


- 1 3. The apparatus of claim 1 wherein the first detector
- 2 is a tone detector.
- 4. The apparatus of claim 1 wherein the second
- 2 detector is an energy analyzer.
- 5. The apparatus of claim 1 wherein the third detector
- 2 is a zero crossing analyzer.
- 6. The apparatus of claim 2 wherein the fourth
- 2 detector is an automatic speech recognizer.
- 7. The apparatus of claim 6 further comprises a
- 2 recorder for recording the received information and for updating
- 3 the inference engine.
- 1 8. The apparatus of claim 2 wherein the first detector
- is a tone detector, the second detector is an energy analyzer,
- 3 and third detector is a zero crossing analyzer;
- 9. The apparatus of claim 8 wherein the fourth
- 2 detector is an automatic speech recognizer.
- 10. A call classifier for classifying a call to a
- 2 destination endpoint comprising:
- a circuit for receiving information from the destination
- 4 endpoint and for processing the received information;
- a tone detector for determining a first classification in



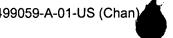


- 6 response to the processed information;
- a energy analyzer detector for determining a second
- 8 classification in response to the processed information;
- a zero crossing analyzer detector for determining a
- third classification in response to the processed information;
- 11 and
- an inference engine for determining a call
- classification of the destination endpoint in response to the first,
- second, and third classifications.
- 1 11. The call classifier of claim 10 further comprises a
- 2 recorder for recording the received information and for updating
- 3 the inference engine.
- 1 12. A call classifier for classifying a call to a
- 2 destination endpoint comprising:
- a circuit for receiving information from the destination
- 4 endpoint and for processing the received information;
- a tone detector for determining a first classification in
- 6 response to the processed information;
- a energy analyzer detector for determining a second
- 8 classification in response to the processed information;
- a zero crossing analyzer detector for determining a
- third classification in response to the processed information;
- an automatic speech recognition unit for determining a
- 12 fourth classification; and



13	an inference engine for determining a call
14	classification of the destination endpoint in response to the first,
15	second, third and fourth classifications.

- 13. The call classifier of claim 12 further comprises a 1 recorder for recording the received information and for updating 2 the inference engine. 3
- 14. The call classifier of claim 12 wherein the 1 automatic speech recognition unit is determining words. 2
- 15. The call classifier of claim 12 wherein the 1 automatic speech recognition unit is determining phrases. 2
- 16. The call classifier of claim 15 wherein the 1 automatic speech recognition unit is executing a Hidden 2 Markov Model. 3
- 17. A method for classifying a call to a destination 1 endpoint, comprising the steps of: 2
- receiving information from the called destination 3 endpoint; 4
- performing a first classification of the received 5 information: 6
- performing a second classification of the received 7 information; 8
- performing a third classification of the received 9

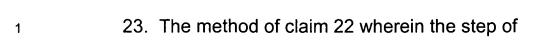


information; and 10

determining a call classification of the called 11 destination endpoint from the first, second, and third 12 classifications. 13

- 18. The method of claim 17 further comprises the 1 step of performing a fourth classification of the received 2 information; and 3
- the step of determining further responsive to the fourth 4 classification to determine the call classification of the called 5 destination endpoint. 6
- 19. The method of claim 18 wherein the first 1 classification is for one of tone, energy, zero crossings, or 2 speech. 3
- 20. The method of claim 19 wherein the second 1 classification is for one of tone, energy, zero crossings, or 2 speech. 3
- 21. The method of claim 19 wherein the third 1 classification is for one of tone, energy, zero crossings, or 2 speech. 3
- 22. The method of claim 21 wherein the fourth 1 classification is for one of tone, energy, zero crossings, or 2 speech. 3





determining comprises the step of executing an inference

3 engine.

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- 24. The method of claim 23 further comprises the step of recording the received information for updating the inference engine.
- 25. The method of claim 23 wherein performing classification for speech comprises the step of executing a Hidden Markov Model.
- 26. The method of claim 23 wherein performing classification for speech comprises the step of determining words.
- 27. The method of claim 23 wherein performing classification for speech comprises the step of determining phrases.
- 28. A method for classifying a call to a destination endpoint, comprising the steps of:
- receiving information from the called destination endpoint;
- performing a tone classification of the receivedinformation;
- 7 performing a energy classification of the received



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- performing a zero crossing classification of the
  received information;
- performing speech classification of the received information; and
- executing an inference engine to determine a call classification of the called destination endpoint from the tone, energy, zero crossing, and speech classifications.
- 29. The method of claim 28 wherein performing
  speech classification comprises the step of determining words.
- 30. The method of claim 28 wherein performing speech classification comprises the step of determining phrases.
- 31. The method of claim 28 further comprises the step of recording the received information for updating the inference engine.
- 1 32. Apparatus for implementing the steps of claim 17.
- 1 33. Apparatus for implementing the steps of claim 18.